Manuals+ — User Manuals Simplified.

KILOVIEW NDI Core Server User Guide

**NDI Core Server
User Guide**

Contents

Server environment preparation

Hardware environment
Processor High frequency CPU, such as E2288G, 12 Generation Core i5 12600K.
Hard disk: 64G or higher
Memory: 4GB RAM or above 16G
Network card: one or more 10G or higher speed network card
Software environment
Operation system: Linux64-bit operating system Ubuntu 18.04, 20.04
Network environment
Internet application tools and image files
LAN Bandwidth: 10 Gigabit networks.

Login to server

You can use remote terminal software to login to the server, Shel or PuTTy is recommended.
Xshell download website **https://www.netsarang.com/zh/xshell-download/**
Putty download website **https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html**
1.2.1 After installing Shel, enter IP address of the server in the new session and use SSH protocol to communicate. The default port is 22, click "Ok" after input completed.
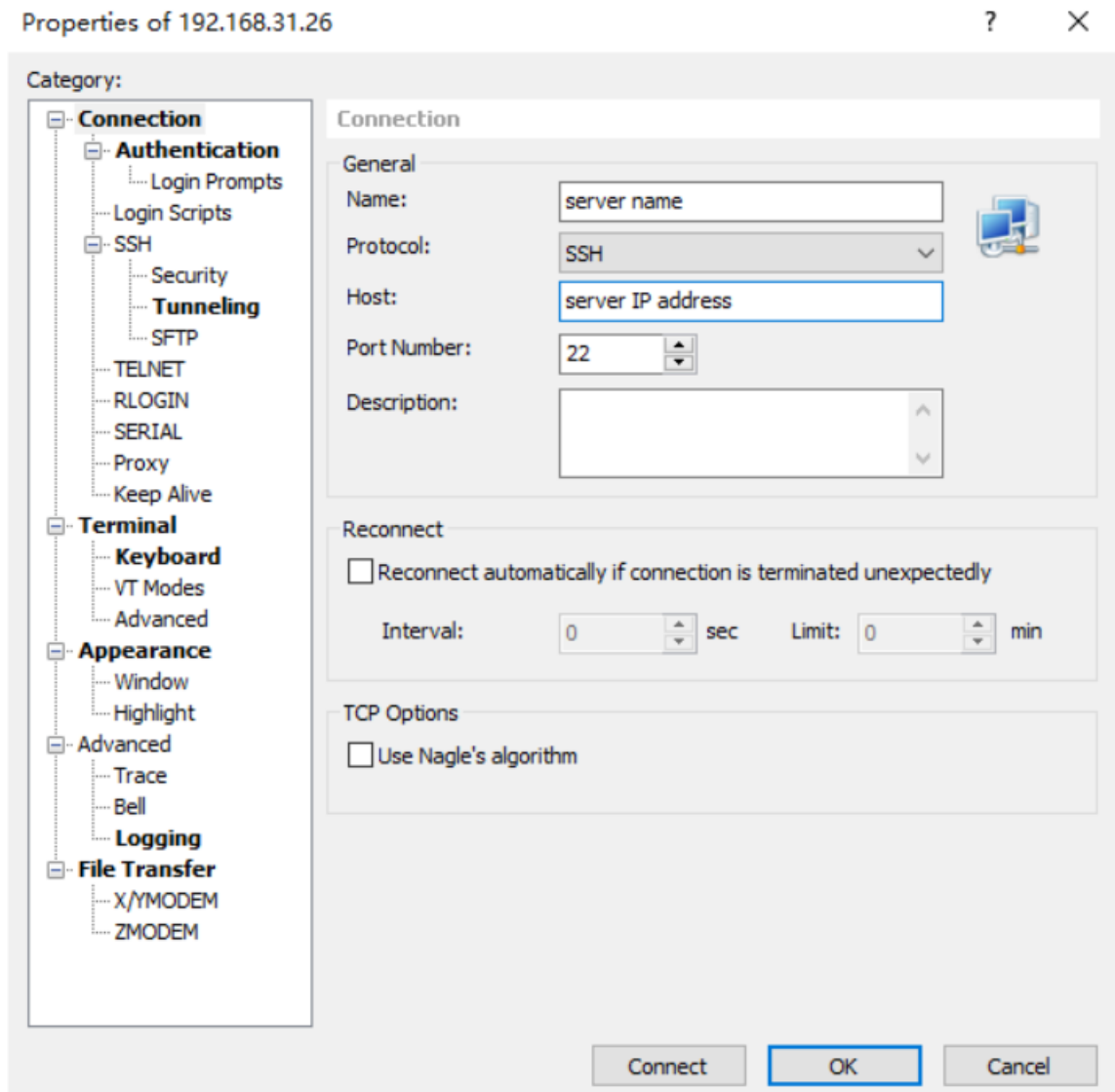
Enter the user name and password in the pop-up dialog box. Ordinary users need sudor to obtain management right or log in as root user. The deployment process in the following is completed by root user.
You can enter "sudo su -" in command window to switch to the root user.

Deployment guide

```
root@kiloview:/# curl -fsSL https://get.docker.com | sh

# Executing docker install script, commit: 93d2499759296ac1f9c510605fef85052a2c32be

+ sh -c apt-get update -qq >/dev/null
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get install -y -qq apt-transport-https ca-certificates curl >/dev/null
+ sh -c curl -fsSL "https://download.docker.com/linux/ubuntu/gpg" | gpg --dearmor --yes -o /usr/share/keyrings/docker-archive-
keyring.gpg
+ sh -c echo "deb [arch=amd64 signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu
focal stable" > /etc/apt/sources.list.d/docker.list
+ sh -c apt-get update -qq >/dev/null
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get install -y -qq --no-install-recommends  docker-ce-cli docker-scan-plugin docker-
ce >/dev/null
+ version_gte 20.10
+ [ -z  ]
+ return 0
+ sh -c DEBIAN_FRONTEND=noninteractive apt-get install -y -qq docker-ce-rootless-extras >/dev/null
+ sh -c docker version
```

https://get.docker.com
https://get.docker.com
https://download.docker.com/linux/ubuntu/gpg
https://download.docker.com/linux/ubuntufocalstable

```
Client: Docker Engine - Community
 Version:           20.10.11
 API version:       1.41
 Go version:        go1.16.9
 Git commit:        dea9396
 Built:             Thu Nov 18 00:37:06 2021
 OS/Arch:           linux/amd64
 Context:           default
 Experimental:      true

Server: Docker Engine - Community
 Engine:
  Version:          20.10.11
  API version:      1.41 (minimum version 1.12)
  Go version:       go1.16.9
  Git commit:       847da18
  Built:            Thu Nov 18 00:35:15 2021
  OS/Arch:          linux/amd64
  Experimental:     false
 containerd:
  Version:          1.4.12
  GitCommit:        7b11cfaabd73bb80907dd23182b9347b4245eb5d
 runc:
  Version:          1.0.2
  GitCommit:        v1.0.2-0-g52b36a2
 docker-init:
  Version:          0.19.0
  GitCommit:        de40ad0
```

```
root@VM-0-9-ubuntu:~# apt install avahi-daemon
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  dblatex dblatex-doc dh-strip-nondeterminism docbook-dsssl docbook-utils docbook-xml docbook-xsl dvisvgm dwz eatmydata fonts-droid-fallback fonts-gfs-baskerville fonts-gfs-porson fonts-lmodern fonts-noto-mono fonts-texgyre fonts-urw-base35 ghostscript
  libalgorithm-c3-perl libapache-pom-java libarchive-cpio-perl libarchive-zip-perl libauthen-sasl-perl libb-hooks-endofscope-perl libb-hooks-op-check-perl libc-dev-bin libcairo2 libclass-c3-perl libclass-c3-xs-perl libclass-data-inheritable-perl
  libclass-method-modifiers-perl libclass-xsaccessor-perl libcommons-logging-java libcommons-parent-java libcrypt-dev libcups2 libdata-dump-perl libdata-optlist-perl libdatrie1 libdebhelper-perl libdevel-callchecker-perl libdevel-caller-perl
  libdevel-globaldestruction-perl libdevel-lexalias-perl libdevel-stacktrace-perl libdist-checkconflicts-perl libdynaloader-functions-perl libeatmydata1 libemail-date-format-perl libencode-locale-perl libeval-closure-perl libexception-class-perl libfile-basedir-perl
  libfile-desktopentry-perl libfile-homedir-perl libfile-listing-perl libfile-mimeinfo-perl libfile-stripnondeterminism-perl libfile-which-perl libfont-afm-perl libfontbox-java libgraphite2-3 libgs9 libgs9-common libharfbuzz-icu0 libharfbuzz0b libhtml-form-perl
  libhtml-format-perl libhtml-parser-perl libhtml-tagset-perl libhtml-tree-perl libhttp-cookies-perl libhttp-daemon-perl libhttp-date-perl libhttp-message-perl libhttp-negotiate-perl libijs-0.35 libio-html-perl libio-socket-ssl-perl libio-stringy-perl
  libipc-shareable-perl libipc-system-simple-perl libjbig2dec0 libkpathsea6 liblcms2-2 libllvm10 liblog-dispatch-perl liblog-log4perl-perl libltdl-dev libltwp-mediatypes-perl libltwp-protocol-https-perl libmailtools-perl libmime-charset-perl libmime-lite-perl
  libmime-types-perl libmodule-implementation-perl libmodule-runtime-perl libmro-compat-perl libnamespace-autoclean-perl libnamespace-clean-perl libnet-dbus-perl libnet-http-perl libnet-smtp-ssl-perl libnet-ssleay-perl libosp5 libostyle1c2 libpackage-stash-perl
  libpackage-stash-xs-perl libpadwalker-perl libpaper-utils libpaper1 libparams-classify-perl libparams-util-perl libparams-validationcompiler-perl libpdfbox-java libpixman-1-0 libptexenc1 libreadonly-perl libref-util-perl libref-util-xs-perl librole-tiny-perl
  libsgmls-perl libsombok3 libspecio-perl libsub-exporter-perl libsub-exporter-progressive-perl libsub-identify-perl libsub-install-perl libsub-name-perl libsub-override-perl libsub-quote-perl libsynctex2 libtcl8.6 libtexckit0 libtexlua53 libtexluajit2 libthai-data
  libthai0 libtie-ixhash-perl libtimedate-perl libtk8.6 libtry-tiny-perl libunicode-linebreak-perl liburi-perl libvariable-magic-perl libwoff1 libwww-perl libwww-robotrules-perl libx11-protocol-perl libxcb-render0 libxcursor1 libxdamage1 libxml-parser-perl
  libxml-twig-perl libxml-xpathengine-perl libxss1 libxstring-perl libyaml-tiny-perl libzzip-0-13 lmodern openjade opensp perl-openssl-defaults poppler-data preview-latex-style python3-importlib-metadata python3-jinja2 python3-json-pointer python3-jsonpatch
  python3-jsonschema python3-markupsafe python3-more-itertools python3-pyrsistent python3-zipp sgml-base sgml-data sgmlspl squashfs-tools tlutils tcl tcl8.6 teckit tex-common tex-gyre texlive texlive-base texlive-bibtex-extra texlive-binaries texlive-extra-utils
  texlive-fonts-recommended texlive-formats-extra texlive-lang-greek texlive-latex-base texlive-latex-extra texlive-latex-recommended texlive-pictures texlive-plain-generic texlive-science texlive-xetex tipa tk tk8.6 x11-xserver-utils xdg-utils xfonts-encodings
  xfonts-utils xml-core xmlto xsltproc
Use 'apt autoremove' to remove them.
The following additional packages will be installed:
  libavahi-core7 libdaemon0 libnss-mdns
Suggested packages:
  avahi-autoipd avahi-autoipd | zeroconf
The following NEW packages will be installed:
  avahi-daemon libavahi-core7 libdaemon0 libnss-mdns
0 upgraded, 4 newly installed, 0 to remove and 43 not upgraded.
Need to get 180 kB of archives.
After this operation, 765 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
```
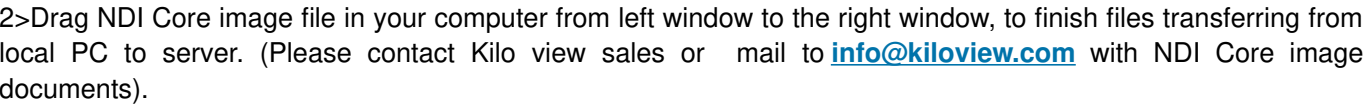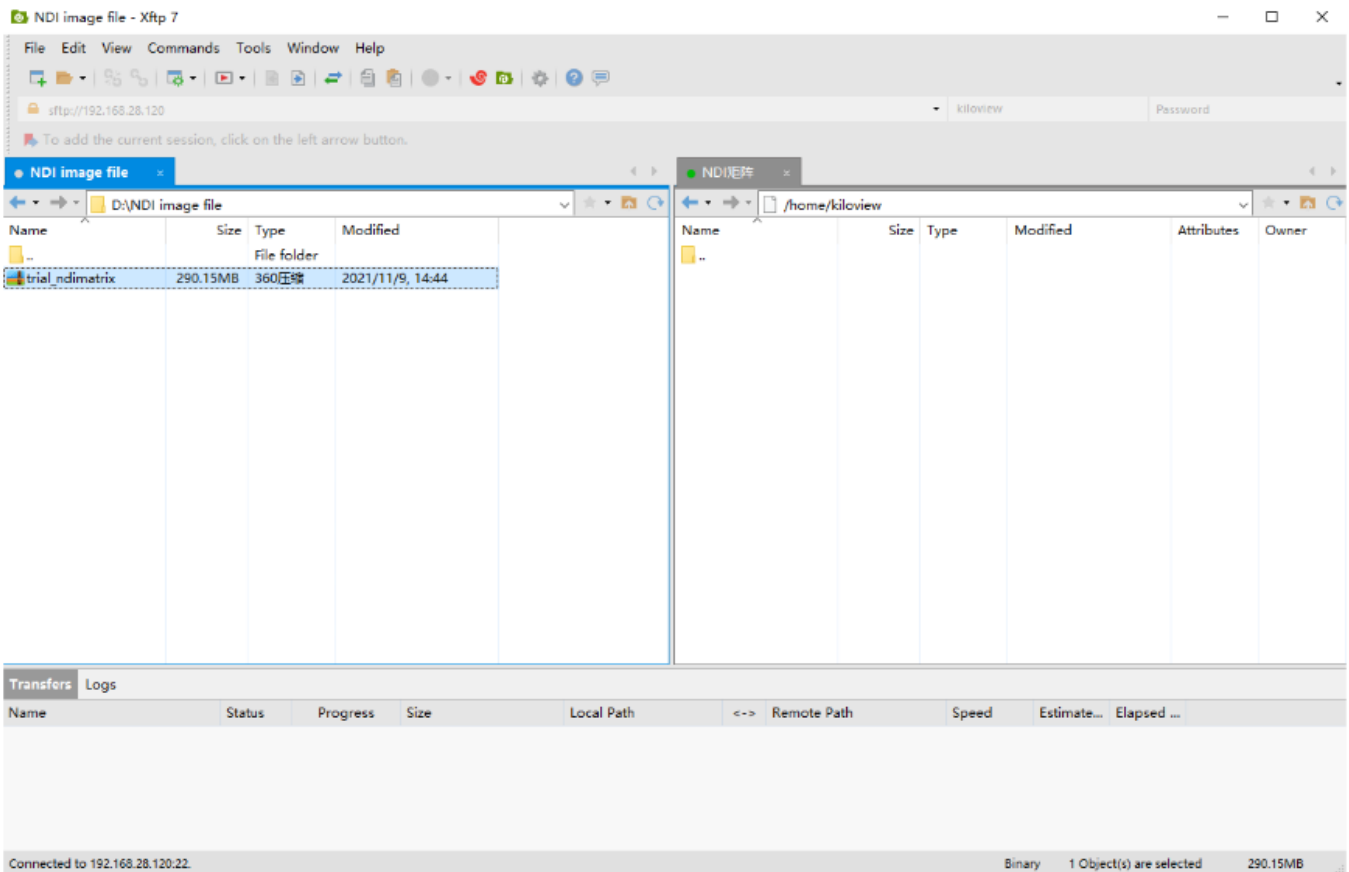
root@VM-0-9-ubuntu:—# docker run -d –name status –restart=always -v /var/run/docker.sock:/var/run/docker.sock:ro –pid host –network host -e LANCES_OPT=m-w" nicolargo/glances

Unable to find image 'nicolargo/glances:latest' locally

latest: Pulling from Niko/glances

a10c77af2613: Pull complete

eab08a61c249: Pull complete

93533675153b: Pull complete

bfaledacf570: Pull complete

88cflOda884f: Pull complete

9e671e821651: Pull complete

b62c8aa4ba07: Pull complete

df54e77b2043: Pull complete

Digest: sha256:76a921619e799f8eea2544e1555d8Oda214fdae9c31c8c29d75882b4b233a8la

Status: Downloaded newer image for Nico largo/glances: latest

7768b11b7d5a885bbf7ece8aa563f5f5310f801da462c6db3c9ea2bdla0838f8 root@VM-0-9-ubuntu:—# I

Upload NDI Core image to the server

 1 Upload NDI Core image from personal computer to server.

Note

NDI Core image need to be uploaded to Linux system from NDI local personal computer, which is required to transfer files by a file transfer tool. Deployers can use xftp files transferring tool that comes with the Xhell or other file transfer tool, such as Securer.

1> Click file transfer icon in the Shel.

2>Drag NDI Core image file in your computer from left window to the right window, to finish files transferring from local PC to server. (Please contact Kilo view sales or   mail to **info@kiloview.com** with NDI Core image documents).

(2) Load NDI Core image in the server

1.primary docker load -i kv_ndicore_primary_011801.tar

2.pro

docker load -i kv_ndicore_pro_011801.tar

Note: If the location of the NDI image file is not in the current directory, you need to specify the folder where NDI image file is located.

For example: If the directory where NDI image file is located as /home/kiloview, then the NDI image file loading command is "docker load -i /home/kilo view/kv_ndicore_pro_011801.tar"

```
root@VM-0-9-ubuntu:/home/ubuntu# docker load -i kv_ndicore_pro_011801.tar
cc967c529ced: Loading layer [=================================================>]  65.57MB/65.57MB
2c6ac8e5063e: Loading layer [=================================================>]  991.2kB/991.2kB
6c01b5a53aac: Loading layer [=================================================>]  15.87kB/15.87kB
e0b3afb09dc3: Loading layer [=================================================>]  3.072kB/3.072kB
9d3cadc3d17e: Loading layer [=================================================>]  27.69MB/27.69MB
db6e2a638ab1: Loading layer [=================================================>]  114.3MB/114.3MB
9f2fd036a4a9: Loading layer [=================================================>]  3.584kB/3.584kB
20b2e7d325d4: Loading layer [=================================================>]  2.56kB/2.56kB
758a8236e8b9: Loading layer [=================================================>]  2.048kB/2.048kB
8abff239dac8: Loading layer [=================================================>]  1.536kB/1.536kB
ac9c6590408b: Loading layer [=================================================>]  4.643MB/4.643MB
bda72356d77c: Loading layer [=================================================>]  9.728kB/9.728kB
75810feecf4b: Loading layer [=================================================>]  39.62MB/39.62MB
7e47cfdd3260: Loading layer [=================================================>]  556kB/556kB
bc90e555b3c8: Loading layer [=================================================>]  3.072kB/3.072kB
87bf4592c061: Loading layer [=================================================>]  36.35kB/36.35kB
8017a395ddee: Loading layer [=================================================>]  16.38kB/16.38kB
f275a7a61f6f: Loading layer [=================================================>]  10.46MB/10.46MB
e98830ac8618: Loading layer [=================================================>]  14.39MB/14.39MB
a10c5d895642: Loading layer [=================================================>]  927.7kB/927.7kB
87e801439ab8: Loading layer [=================================================>]  9.403MB/9.403MB
1488b496f22c: Loading layer [=================================================>]  879.6kB/879.6kB
4ee4f7e0dd9a: Loading layer [=================================================>]  894.5kB/894.5kB
b0439f642b95: Loading layer [=================================================>]  1.386MB/1.386MB
f0af0a693169: Loading layer [=================================================>]  891.9kB/891.9kB
5168f669e526: Loading layer [=================================================>]  1.038MB/1.038MB
8687bcb79567: Loading layer [=================================================>]  1.086MB/1.086MB
2360bb09cc5c: Loading layer [=================================================>]  2.048kB/2.048kB
addf2d3eb25e: Loading layer [=================================================>]  10.31MB/10.31MB
19bd1a2d4a1c: Loading layer [=================================================>]  52.75MB/52.75MB
c2e76cee58fa: Loading layer [=================================================>]  3.584kB/3.584kB
df304ad5eca3: Loading layer [=================================================>]  636.9kB/636.9kB
3396c01c88c1: Loading layer [=================================================>]  242.7kB/242.7kB
Loaded image: kiloview/kv_ndicore_senior_011801:latest
```

Run container

1. primary   docker   run   -d   -v   /root/cp_data3:/data/configs   -v   /etc/timezone:/etc/timezone   -v /etc/localtime:/etc/localtime -v /var/run/avahi-daemon:/var/run/avahi- daemon -v /var/run/dbus:/var/run/dbus –restart=always   –name   kv_ndicore_primary_011801–network   host   –privileged=true iloview/kv_ndicore_primary_011801:latest

2. producer run -d -v /root/cp_data3:/data/configs -v /etc/time zone:/etc/timezone -v/etc/localtime:/etc/localtime -v /var/run/avahi-daemon:/var/run/avahi-   aemon   -v /var/run/dbus:/var/run/dbus –restart=always –name kv_ndicore_pro_011801 –network host -privileged=true kiloview/kv_ndicore_pro_011801:latest

Note:

The last image name in the above command (like kv_ndicore_senior_011801 in in the below picture) must be the same as the name behind the loaded image at the top of the command line.

Login authentications

Enter "IP address of server:81"in the browser (Google is recommended), press enter to display the login interface of the NDI Core. The default user name and password are **admin\.**

For more questions, please contact us via : **https://www.kiloview.com/en/support**

https://www.facebook.com/kiloviewelectronics/	**https://www.linkedin.com/company/kiloview-electronics**

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Please scan with browser.
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Changsha City, Hunan Province, China.

Documents / Resources

	KILOVIEW NDI Core Server [pdf] User Guide NDI Core Server, NDI Core, Server

References

- 🌐 **Download PuTTY: latest release (0.78)**
- 🔺 **Xshell - NetSarang Website**